

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/645,838	08/22/2003	Uwe Kriltz	3691-582	8129
23117 7:	590 02/27/2006		EXAM	INER
	ANDERHYE, PC LEBE ROAD, 11TH F	LOOR	BLACKWELL RUDA	SI, GWENDOLYN A
ARLINGTON,			ART UNIT	PAPER NUMBER
			1775	

DATE MAILED: 02/27/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
		10/645,838	KRILTZ ET AL.
	Office Action Summary	Examiner	Art Unit
		Gwendolyn Blackwell	1775
	The MAILING DATE of this communication app	ears on the cover sheet with the c	correspondence address
Period fo		/ IO OCT TO EVOIDE AMONTH	(C) OD THIDTY (20) DAYS
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status			
1)🖂	Responsive to communication(s) filed on 22 No.	ovember 2005.	
2a)⊠	This action is FINAL . 2b) ☐ This	action is non-final.	
3)□	Since this application is in condition for allowar		
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 49	53 O.G. 213.
Dispositi	on of Claims		
4)🖂	Claim(s) 1-32 is/are pending in the application.		
	4a) Of the above claim(s) is/are withdraw	vn from consideration.	
· · · · · · · · · · · · · · · · · · ·	Claim(s) <u>1-27</u> is/are allowed.		
	Claim(s) <u>28-30</u> is/are rejected.		
-	Claim(s) <u>31-32</u> is/are objected to. Claim(s) are subject to restriction and/or	r election requirement	
8)[_]	claim(s) are subject to restriction and/or	r election requirement.	•
Applicati	on Papers		
•	The specification is objected to by the Examine		
10)⊠	The drawing(s) filed on 22 August 2003 is/are:		
	Applicant may not request that any objection to the		
11\	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	-	
11)[]	The dath of declaration is objected to by the Ex	diffilier. Note the attached Office	, ACION ON IONN' 10-102.
Priority u	ınder 35 U.S.C. § 119		•
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).
a)[☐ All b)☐ Some * c)☐ None of:		
	1. Certified copies of the priority documents		ing No.
	2. Certified copies of the priority documents		
	3. Copies of the certified copies of the prior application from the International Bureau		ed III tills National Stage
* 5	See the attached detailed Office action for a list		ed.
Attachmen	t(s)		
	e of References Cited (PTO-892)	4) ☐ Interview Summary Paper No(s)/Mail D	
3) Infor	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date		Patent Application (PTO-152)

DETAILED ACTION

Terminal Disclaimer

1. The terminal disclaimer filed on December 20, 2005 disclaiming the terminal portion of any patent granted on this application, which would extend beyond the expiration date of any patent granted on serial number 10/797,561 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 28-30 are rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent Application Publication no. 2002/0102352, Hartig et al.

Applicant's claim 28

Applicant's claim 28 requires a coated article comprised of a multilayer coating wherein the coating is comprised of a dielectric layer, first and second layers comprising silver spaced apart from one another by at least one metal oxide inclusive layer and another dielectric layer provided over both of the first and second layers comprising silver. In addition, to the exemplified layer structure the coated article should have particular physical properties.

Application/Control Number: 10/645,838

Art Unit: 1775

Regarding claim 28

Hartig et al disclose the following layer structure, (page 4, Table 1):

T 8 TO THE	C 43 101 17 A	SAMPLE C	SAMPLE D	
LAYER	SAMPLE A	SAMPLE B	JAMELES C.	. Janua Lu V
Zn÷	65 Å	66 Å	65 Å	84 Å
ZnO	57 A	56.7 A	45 A	43 Å
Âg	63.7 A	66.3 A	74 Å	73 A
N5	15.3 Å	15 Å	16.2 Å	17 Å
Za÷	74 Å	73 Å	107 Å	93 Å
SI3N4	135 Å	135 Å	128 Å	E8 Å
Zn+	197 Å	206 Å	191 Å	189 A
S23N4	139 Å	133 Å	124 Å	122 Å
Za+	29 Å	31 Å	57 Å	64 A
ZaO	51 Å	62 Å	62 Å	51 A

IABLE I-continued				
LAYER	SAMPLE A	SAMPLE B	SAMPLE C	SAMPLE D
Åç	143 Å	140.4 Å	168 Å	14: Å
Nb	15.9 Å	15 Å	16.8 Å	16 Å
Z2+	83 Å	34 Å	105 Å	108 A
Si3N4	45 Å	24 Å	ĴŠ Å	34 Å
TEN	13.3 Å	141 Å	15 Å	14 Å
5i3N4	152 Å	176 Å	155 Å	156 Å

wherein before tempering the total visible transmission was 71.4% and post tempering the total visible transmission is 78.7%, (page 5, Table 2), which demonstrates that the coated article retained more than 98% of its pre heat treatment visible transmission, meeting the requirements of claim 28.

Regarding claims 29-30

The sheet resistance is 2.5, and the T_v/R_s (78.7/2.5) is 31.4, (page 5, Table 2). When the structure recited in the reference is substantially identical to that of the claims, the claimed properties or function are presumed inherent. MPEP 2112.01. Because the prior art exemplifies Applicant's claimed layer structure, the claimed physical properties relating to a ΔE^* value are

Application/Control Number: 10/645,838

Art Unit: 1775

inherently present in the prior art. Absent an evidentiary showing to the contrary, the addition of the claimed physical properties to the claim language fails to provide patentable distinction over the prior art of record, meeting the requirements of claims 29-30.

Allowable Subject Matter

4. Claims 1-27 are allowed over the prior art of record. Claims 31 and 32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The closest prior art of record while generally teaching a low emissivity multilayered structure, do not teach or suggest the layer structure as set forth in independent claims 1 and 23, as well as claims 31-32.

Response to Arguments

- 5. Applicant's arguments filed November 22, 2005 have been fully considered but they are not persuasive with regards to US 2002/0102352, Hartig et al.
- 6. With regards to Applicant's contention that Hartig et al does not teach or suggest the physical properties as exemplified by Applicant:

This is not persuasive as Hartig et al does teach the layer structure as claimed by Applicant. While Hartig et al may not specifically disclose the physical properties, absent an objective showing to the contrary, those physical properties as claimed by Applicant are presumed present in the prior art. Applicant has not demonstrated by an objective showing that

Application/Control Number: 10/645,838

Art Unit: 1775

the physical properties are not present. Arguments are not considered evidence. As such, the rejection of claims 28-30 stand.

Conclusion

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gwendolyn Blackwell whose telephone number is (571) 272-1533. The examiner can normally be reached on Monday - Thursday; 6:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Page 6

Application/Control Number: 10/645,838

Art Unit: 1775

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gwendolyn Blackwell

Examiner

Art Unit 1775

Salv

JENNIFER MCNEIL

2/21/04